

AC Inverter 700W USB



User's Manual

AC Inverter 700W USB™ by Wagan Tech®

Thank you for purchasing the Slim Line 700 Watt USB Inverter. With minimal care and proper treatment it will provide years of reliable service. Please read and understand all operating instructions carefully before use.

Your 700 Watt USB Power Inverter converts 12V DC battery power to 115V AC household electrical power. You use the inverter in your vehicle to operate many types of appliances that use AC or USB power, such as TVs, DVD players, portable computers, power tools, and lights for emergency or camping use.

The inverter works with your vehicle's engine turned on or off (accessory mode). It provides a continuous output of up to 700 Watts.

DESCRIPTION

1,800W Peak Power: Allows you to power appliances that require a large amount of initial (peak) power to work (such as many televisions or motorized equipment).

Auto Shutdown / Reset Protection: The inverter temporarily shuts itself down to protect itself from overheating.

Overload / Short Circuit Protection: The inverter automatically turns itself off if the connected load is too high or if it shorts.

Dual AC Outlets: Allows you to power up to two AC appliances.

Dual USB Outlets: Allows you to power up to 2 USB appliances.

CAUTION

- **DO NOT USE THE INVERTER IN A POSITIVELY GROUNDED VEHICLE.**
- THE ELECTRICITY GENERATED BY THE INVERTER IS MODIFIED SINE WAVE. Do not use the inverter to power the following devices:
 - » Small appliances such as rechargeable flashlights, some razors, and some rechargeable night lights that plug into a wall outlet for recharge.
 - » Some battery chargers for rechargeable tools.
- Before using the inverter, please check the equipment manufacturer's manual and specifications to check if the equipment is capable of being charged properly without damaging it.

WARNINGS

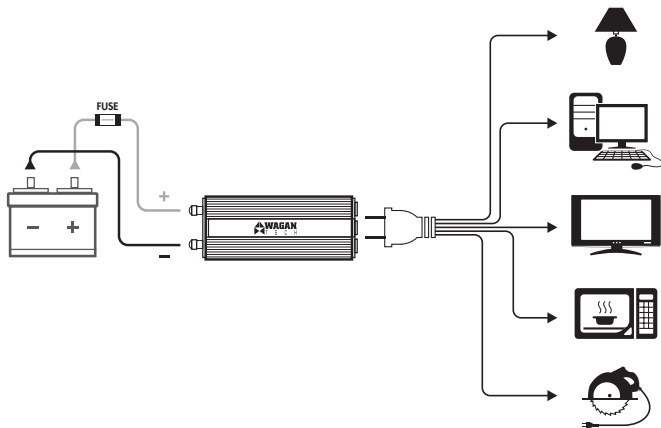
- **Shock hazard: The Inverter generates the same AC power as a normal household wall outlet.**
- Do not attempt to open or disassemble unless instructed by technical service personnel.
- Do not insert foreign objects into the outlet.
- Do not expose to water, rain or snow.
- Do not connect to power utility AC distribution wiring.
- Heated surface: The inverter housing may become uncomfortably warm, reaching 65°C (150°F) under extended high power operation.
- During operation, keep the inverter from materials that may be affected by high temperatures.
- Failure to follow the above may result in personal injury or damage to the inverter.

BASIC OPERATION

Note: Use the right operating voltage for both input and output of the inverter.

Connecting to Power Source (Directly to a 12V DC battery):

1. Unscrew the red and black terminal covers of the inverter.
2. Attach the red, positive (+) wire to the positive terminal. Secure the wire with the terminal cover.
3. Attach the other end of the wire to the red, positive (+) terminal of the battery.
4. Repeat the previous 2 steps with the black, negative (-) terminal and matching black wire.



CONNECTING AND USING AC APPLIANCES

1. Plug an AC product into the three prong AC receptacle and/or a USB powered appliance into one of the USB power sockets and turn the inverter on. The green LED will light up. Ensure the total power of all your products draws 700 watts or less of continuous AC power.
2. To avoid discharging the battery power source, always turn the power inverter off and disconnect the inverter from the power supply when not in use.
3. Disconnect the inverter from a vehicle when starting the engine.

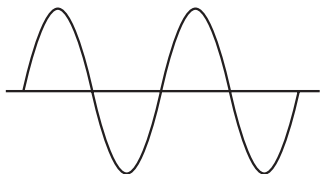
TIPS

Measuring the AC Voltage

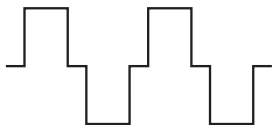
The output waveform of the AC inverter is a modified sine wave. To measure the AC output voltage you must use a true RMS voltmeter.

Adding an Extension Cord

If you need an extension cord, we recommend the use of an extension cord between the AC output of the inverter and AC appliances. You may use up to 100 feet of a high quality extension cord. A long cord will result in reduced output power.



Sine Wave



Modified Sine Wave (MSW)

Buzz in Audio Systems

Some stereo systems will emit a buzzing noise from their loudspeakers when operated from the power inverter because the power supply in the device does not adequately filter the modified sine wave produced by the power inverter. The only solution is to use a sound system that incorporates a higher quality power supply.

Operating a Television

Picture tubes have a degaussing coil that uses a high initial surge of power to light up the screen from a “cold start.” If the television does not start up on the first try, switch on the TV every 2 to 3 seconds until the screen comes on. Sometimes it may take 2 to 5 tries before starting.

Television Interference

Operating the power inverter can interfere with television reception on some channels. If this situation occurs, the following steps may help to alleviate the problem:

1. Make sure the chassis ground lug on the back of the power inverter is solidly connected to the ground system of the vehicle.
2. Do not operate high power loads with the power inverter while watching television.
3. Make sure the antenna feeding your television provides an adequate, “snow free” signal and that you are using a good quality cable between the antenna and the television.
4. Move the television as far away from the power inverter as possible.
5. Keep the cables between the battery and the power inverter as short as possible and twist them together with about 2 to 3 twists per foot. This minimizes the radiated interference from the cables.

TROUBLESHOOTING

Problem: AC product does not operate, green light does not light

Probable Cause	Suggested Remedy
AC product connected is rated at more than 700 watts; overload shutdown occurs.	Use product with a power rating of less than 700 watts.
High starting surge has caused overload shutdown even though AC product connected is rated at less than 700 watts.	Product exceeds inverter's surge capability. Use a product with starting surge power of less than 1800 watts.
Lighter socket or 12 volt outlet may require ignition to be switched on.	Turn ignition key to accessory position.
Poor contact with lighter socket or 12 volt outlet.	Press inverter firmly into the lighter socket. Make sure the socket is clean.
Battery is discharged.	Recharge battery.
Fuse blown by heavy load.	Replace the 30A slow blow fuse by unscrewing the fitting in the positive connector.

Problem: Buzzing sound in audio systems

Inexpensive stereo systems have an inadequate internal power supply filtering which causes a buzzing sound. A system with a high quality filter is the only solution.

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SPECIFICATIONS

TrueRated™ Power (24-hour cont.)	700 Watts
Peak Surge Power	1800 Watts
AC Output Voltage	115V AC RMS
AC Output Frequency	60 Hz
AC Output Waveform	Modified Sine Wave
DC Input Voltage Range	12V DC (10V–15V) DC
Optimum Efficiency	90%
No Load Battery Drain	< 0.3A DC
Low Battery Automatic Shutdown	9.5V ±0.5V DC
Thermal Protection: Shutdown	130°F ± 10°F (55°C ± 5°C)
Input Short Circuit Protection	Yes
AC Receptacles	2 Three-prong Outlets
USB Power Sockets	2 Outlets
Internal Fuses	2x (40 A)
Net Weight	2.5 lbs

WAGAN Corp. Limited Warranty

The WAGAN Corp. warranty is limited to products sold only in the United States.

All Wagan Tech products must be registered within (30) days of purchase to activate its warranty. To register your product, please visit <http://tinyurl.com/waganwarranty>. Be sure to keep the original receipt as it will be required when returning a product under the warranty.

Warranty Duration: This product is warranted to the original purchaser for a period of one (1) year from the original purchase date, to be free of defects in material and workmanship. WAGAN Corporation disclaims any liability for consequential damages. In no event will WAGAN Corporation be responsible for any amount of damages beyond the amount paid for the product at retail.

Warranty Performance: During the above one (1) year warranty period, a product with a defect will be replaced with a comparable model when the product is returned to WAGAN Corporation with an original store receipt. The replacement product will be in warranty for the balance of the original one (1) year warranty period.

To return a defective item, please contact WAGAN Corporation at (800) 231-5806 to obtain a Returned Merchandise Authorization number (RMA#), and return instructions. Each item returned will require a separate RMA#. After you have received the RMA# and the return instructions from WAGAN Corporation, please follow the instructions and send the item with PREPAID SHIPPING, along with all of the required documentation, a complete explanation of the problem, your name, address and daytime phone number. WAGAN Corporation will, at its option, replace or repair the defective part.

A Returned Merchandise Authorization number (RMA#) is REQUIRED when sending in any defective item. WAGAN Corporation is not responsible for any item(s) returned without an official Returned Merchandise Authorization number. The item(s) must be returned with prepaid shipping. WAGAN Corporation is not responsible for any shipping charges incurred in returning the item(s) back to the company for repair or replacement. This warranty is void if the product has been damaged by accident, in shipment, unreasonable use, misuse, neglect, improper service, commercial use, repairs by unauthorized personnel or other causes not arising out of defects in materials or workmanship. This warranty does not extend to any units which have been used in violation of written instructions furnished.

Warranty Disclaimers: This warranty is in lieu of all warranties expressed or implied and no representative or person is authorized to assume any other liability in connection with the sale of our products. There shall be no claims for defects or failure of performance or product failure under any theory of tort, contract or commercial law including, but not limited to negligence, gross negligence, strict liability, breach of warranty and breach of contract.

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